



NQ513BR NQ513BG NQ513BB NQ513BW

DIGITAL MEDIA RECEIVER

CONTENTS

Warnings&Precautions	. 1	Е	N
FCC Statement			
ISED Statement			
Product Features			
Installation			
Installation Procedures			
Installation Opening	3	E	N
To Install The Car Radio			
Accessory List			
Dimension(Unit:mm)			
Wiring Diagram			
Basic Functions Of Panel Keys			
Remote Operation			
Basic Operation			
Radio Operation			
Start Listening			
USB Playback			
AUX Input	8	E	.N
Bluetooth Operation			
Bluetooth Pairing			
Bluetooth Basic Operation			
Bluetooth Music Operation	9	Е	:N
APP Operation	10	E	:N
APP Download			
APP Connection			
APP Operation			
External Microphone			
Audio Settings			
Audio Settings List			
Preset EQ Select			
User EQ Setup			
Loundness Setup			
Bass Adjustment			
Treble Adjustment			
Balance Adjustment			
Fader Adjustment			
Audio Setup Reset			
Tuner Settings			
Tunner Settings List			
Stereo/Mono Select			
DX/Local Select			
RDS ON/OFF			
Tuner Area Select			
Clock Settings			
Clock Settings List			
Clock Format Settings			
Clock Adjust			
Display Settings			
Display Settings List			
Spectrum On/Off			
ID3 On/Off			
System Version			
Trouble Shooting	15	E	:N
Speaker Connection			
Specification	16	E	:N

WARNINGS & PRECAUTIONS

To avoid risk of serious injury or possble violation of laws, please read the following thoroughly before installation or connecting.

- This product is designed specifically for use with 12 volt, negative ground electrical systems only.
- Having the wiring and installation done by expert.
 Be sure to diconnect the cable from the negative battery terminal while installtion
- This apparatus shall not be exposed to dripping or splashing, and no object filled with liquids, shall be placed on the apparatus.
- Fuses shall be replaced only with the correct type and fuse value, and only
 when the apparatus is powered off.
- To prevent a short circuit, never put or leave any metallic objects (such as coins or metallic tools) inside the unit.
- Never set the volume of this product so high that you cannot hear outside traffic and emerency vehicles.

FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference.
- 2. this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Information

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

ISED STATEMENT

English: This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- 1. This device may not cause interference.
- 2. Cause undesired operation of the device.

The digital apparatus complies with Canadian CAN ICES-3 (B)/NMB-3(B).

French: Cet appareil contient des émetteurs/récepteurs exempts de licence qui sont conformes aux RSS exemptés de licence d'Innovation, Sciences et Développement économique Canada.L'exploitation est soumise aux deux conditions suivantes:

- 1. Cet appareil ne doit pas provoquer d'interférences.
- 2. Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.

l'appareil numérique du ciem conforme canadien peut -3 (b) / nmb -3 (b).

This device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS 102 RF exposure, users can obtain Canadian information on RF exposure and compliance.

Cet appareil est conforme à l'exemption des limites d'évaluation courante dans la section 2.5 du cnr - 102 et conformité avec rss 102 de l'exposition aux rf, les utilisateurs peuvent obtenir des données canadiennes sur l'exposition aux champs rf et la conformité.

This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment.

Cet équipement est conforme aux limites d'exposition aux rayonnements du Canada établies pour un environnement non contrôlé.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et votre corps.

PRODUCT FEATURES

 LCD:
 VA-LCD DISPLAY
 Pre-Output:
 4CH x 2V

 Bluetooth:
 Version 5.1
 Max Power:
 4 x 50W

Bluetooth Music: Support

Radio: Preset 18FM,12AM, RDS

SD Card: Support

APP Control: iOS and Android Phone

Push to Talk: Support **Charge:** Front USB 1A

EQ: 32 band, 8 Preset **Audio Format:** MP3, WMA, AAC, FLAC

INSTALLATION

Installation Procedures

First complete the electrical connections and then check for correctness.

Installation Opening

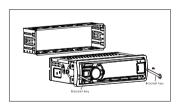
This unit can be installed in any dashboard Having an opening as shown below:



To Install The Car Radio

Be sure you test all connections first, and then follow these steps to install this unit.

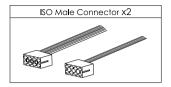
- 1. Make sure the ignition is turned off, and then disconnect the cable from the vehicle battery's negative (-) terminal.
- 2. Disconnect the wire harness and the antenna.
- 3. Remove the detachable panel and decorative enclosure frame and place on one side.
- 4.Insert the two brackets into the left and right sides of the chassis, as shown in the following figure, and separate the chassis from the sleeve.

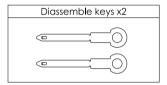


- 5.Insert the installation sleeve into the center console to be installed, and bend the clip using a screwdriver. Make sure the locking rod is flush with the mounting sleeve and does not protrude.
- 6. Connect cables as shown in the Wiring diagram.
- 7.Insert the car radio into the mounting sleeve.
- 8.Install decorative enclosure frame.

ACCESSORY LIST

Please check the following accessories after opening the package:

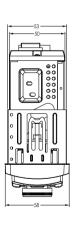


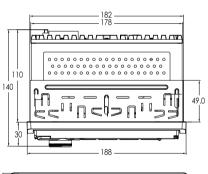


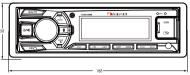




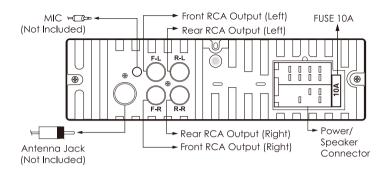
DIMENSION(UNIT:MM)







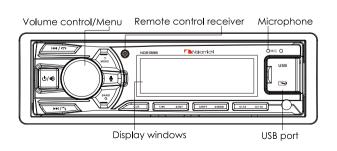
WIRING DIAGRAM



POWER/SPEAKER CONNECTOR		
Color	Name	
Red	Ignition Wire	
Black	GND	
Blue	Amplifier Control	
Yellow	Battery(+)	
Green/Black	Rear Left Speaker -	
Green	Rear Left Speaker +	
White/Black	Front Left Speaker -	
White	Front Left Speaker +	
Gray/Black	Front Right Speaker -	
Gray	Front Right Speaker +	
Purple/Black	Rear Right Speaker -	
Purple	Rear Right Speaker +	

BASIC FUNCTIONS OF PANEL KEYS

То	Radio Status	USB/BT Music Status	
1/▶Ⅱ	Preset 1	Playback/Pause	
2/INT	Preset 2	Intro playback	
3/RPT	Preset 3	Repeat playback	
4/RDM	Preset 4	Random playback	
5/-10	Preset 5	Previous folder	
6/+10	Preset 6	Next folder	
l 4 4/ණ	Seek a station manually End the call	Previous track	
▶	Seek a station manually Answer the call	Next track	
⇒ MODE	Return key function in menu state Short press to switch mode function		
ტ/ ≰	Press to mute, Press an hold to shutdown In call mode, press to end call		
BAND Q	In radio mode, press to toggle FM1/FM2/FM3/AM1/AM2 In radio mode, press to radio to auto search the channel		
•	Short press to voice key (bluetooth connection required)		
CLK	Clock display		



REMOTE OPERATION



Basic Operation

То	Operation (panel)
Power on	Press ७/❖
Power off	Press and hold ७/�
Mute	Press ७/❖
Volume up and down	Turn the knob
Source select	Press Mode
Menu	Press the knob
Return	Press xão (In menu status)
Turn on voice	Press ● (Bluetooth is connected)

RADIO OPERATION

Start Listening

То	Operation (panel)	Remark
Auto memory	Press and hold a	18 FM/12AM
Band selection	Press and	FM1/FM2/FM3/AM1/AM2
Seek a station manually	Press ₩/ŵ ₩/\$	
Search the next or previous frequency step by step	Press and hold	
Store a station	Press and hold 1-6	

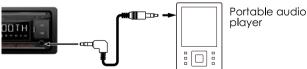
USB PLAYBACK

То	Operation (panel)
Track selection Fast playback	Press and hold and the series and hold and the series and hold and the series are series are series and the series are series are series and the series are series a
Playback/Pause	Press 1/▶II
Track pre-play	Press 2/INT
Repeat playback	Press 3/RPT • REPEAT ONE.REPEAT DIR.REPEAT ALL
Random playback	Press 4/RDM ● ON/OFF
Folder selection	Press 5/-10 6/+10

AUX INPUT

1.Connect a portable audio player(commercially available).

Auxiliary input jack



Auxiliary input jack

- 3.5mm stereo mini plug with "L"shaped connector. (commercially available).
- 2.Press[> | MODE] buttons to select AUX IN.
- 3.Turn on the portable audio player and start playback.

BLUETOOTH OPERATION

Bluetooth Pairing

The first time pair mobile phone with receiver, please follow below steps:

- 1. When there is no pairing, in any mode, the BT1 on the LCD will flash, and the pairing can be performed at this time.
- 2.Turn on the phone's Bluetooth to Search NQ513B.
- 3.Click on the NQ513B on the phone to connect. After the connection is successful, the BT1 will stop flashing.
- 4.When pairing is complete, the mobile phone audio will automatically transfer to the car audio system whenever a call is made or received, or when the mobile phone plays music.

Note:

For more details of bluetooth pairing, please refer to the owner's manual for your mobile phone.

Bluetooth Basic Operation

То	Operation (panel)
Answer a call	Press ►►1/~
End a call	Press ⊷/∽ (In a call)
Adjust call volume	Turn on the knob

Bluetooth Music Operation

То	Operation (panel)
Previous track	Press ◄ / 🖚
Next track	Press ▶►1/~
Playback/Pause	Press 1/▶II

APP OPERATION

APP Download

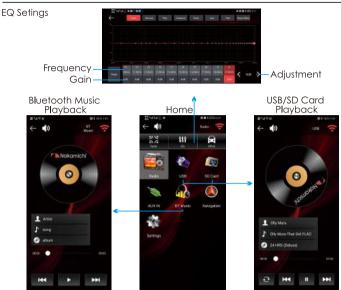
Please go to the APPALE APP Store or Google Play Store and search [Nakamichi AMC] app,after downloading the APP,install it on your Appale&Android devices.

APP Connection

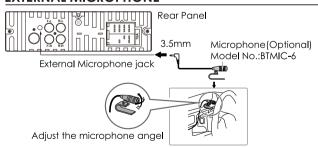
- 1. Open the [Nakamichi AMC] APP, click [to search for NQ513B.
- 2. Click NQ513B to connect, the [] will be red after the connect is successful.



APP OPERATION



EXTERNAL MICROPHONE



Note:

Since the panel microphone is far from the driver's position, when using an external microphone, you can get better voice calls.

AUDIO SETTINGS

- 1. Press the knob to enter the [MENU].
- 2.Turn the knob to select [AUDIO], then press the knob.

Audio Settings List

Todio ocimigo Lioi			
Menu	Adjustment		
PRESET EQ	USER/NATURAL/POP/CLASS/ROCK/JAZZ/FLAT/SUPER BASS		
	30Hz/60Hz/80Hz/100Hz/120Hz/160Hz/250Hz/400Hz 600Hz/ 800Hz/1KHz/1.5KHz/2KHz/2.5KHz/3KHz/3.5K/4K/5K/6K/7K/8K/ 9K/10K/11K /12K/13K/14K/15K/16K/17K/18K/19K		
LOUD	OFF/ON		
BASS	BASS -7 ~ +7		
TREBLE	TREBLE -7 ~ +7		
BAL	BALAN L7-L0,0,R1-R7		
FADER	FADER R7-R0,0,F1-F7		
AUDIO RESET	NO/YES		

Preset EQ Select

1.Turn the knob to select [PRESET EQ], then press the knob. 2.Turn the knob to select [USER/NATURAL/POP/CLASS/ROCK/JAZZ/FLAT/SUPER BASS].

User EQ Setup

1.Turn the knob to select [PRESET EQ], then press the knob.

2.Turn the knob to select [USER], then press the knob.

3. Turn the knob to select frequency for adjustment.

Loundness Setup

1.Turn the knob to select [LOUND], then press the knob.

2.Turn the knob to select [OFF/ON].

Bass Adjustment

1.Turn the knob to select [BASS], then press the knob.

2.Turn the knob to adjustment [-7 to +7].

Treble Adjustment

1.Turn the knob to select [TREBLE], then press the knob.

2.Turn the knob to select [-7 to +7].

Balance Adjustment

1. Turn the knob to select [BAL], then press the knob.

2.Turn the knob to select [L7-L0 toR1-R7].

Fader Adjustment

1. Turn the knob to select [FADER], then press the knob.

2.Turn the knob to select [R7-R0 toF1-F7].

Audio Setup Reset

1.Turn the knob to select [AUDIO RESET], then press the knob.

2.Turn the knob to select [NO/YES].

TUNER SETTINGS

- 1. Press the knob to enter the [MENU].
- 2.Turn the knob to select [TUNER], then press the knob.

Tunner Settings List

Menu	Adjustmer	nt	
TUNER	DX/LOCAL RDS OFF/ON		NONE/NEWS/AFFAIRS/INFO/SPORT/
			EDUCATE/DRAMA/CULTURE/SCIENCE/
			VARIED/POP M/ROCK M/EASY M/
		TA OFF/ON	LIGHT M/CLASSICS/OTHER M/WEATHER/
		AF ON/OFF	FINANCE/CHILDREN/SOCIAL/RELIGION/
		AI ON/OIT	PHONE IN/TRAVEL/LEISURE/JAZZ/
		EON OFF/ON	COUNTRY/NATION M/OLDIES/FOLK M/
		REG OFF/ON	DOCUMENT
		PTY OFF/ON	
	AREA EUR/USA/ASIA/RUSS		

Stereo/Mono Select

Turn the knob to select [STEREO or MONO], then turn the knob select [STEREO/MONO].

DX/Local Select

Turn the knob to select [LOC or DX], then turn the knob select [DX /LOCAL].

Remark: DX:Distant exchange

RDS ON/OFF

Turn the knob to select [RDS OFF], then turn the knob select [RDS OFF,ON].

Tuner Area Select

Turn the knob to select [AREA], then turn the knob select [EUR/USA/ASIA/RUSS].

CLOCK SETTINGS

- 1. Press the knob to enter the [MENU].
- 2.Turn the knob to select [CLOCK], then press the knob.

Clock Settings List

-		
Menu	Adjustment	
CLK FRMT	12H/24H	
CLK ADJ	00:00	

Clock Format Settings

- 1. Turn the knob to select [CLK FRMT], then press the knob.
- 2.Turn the knob to select [12H/24H].

Clock Adjust

- 1. Turn the knob to select [CLK ADJ], then press the knob.
- 2.Turn the knob to adjustment.
- 3. Press the knob to switch the clock/minute adjustment.

DISPLAY SETTINGS

Display Settings List

Menu	Adjustment
SPECTRUM	OFF/ON
ID3 TAG	OFF/ON
VERSION	VER 3.1

Spectrum ON/OFF

- 1. Turn the knob to select [SPECTRUM], then press the knob.
- 2.Turn the knob to select [OFF/ON].

ID3 ON/OFF

- 1.Turn the knob to select [ID3 TAG], then press the knob.
- 2.Turn the knob to select [OFF/ON].

System Version

Turn the knob to select [VERSION], then press the button to query the system version information.

TROUBLE SHOOTING

Not work Remedy

Replace the fuse: small 10A(Red) Fuse blown

Not responding

System problem Reset the unit

Can't turn on voice

Bluetooth is not connected Connect Bluetooth NA

Phone does not support voice

Not plavina

Incorrect device format Reformat Replacement device Device error

Unsupported audio file Replace supported audio files

Radio reception is poor

Poor contact of radio antenna Reconnect the radio antenna

Poor signal at location Change to other positions

Remote control is invalid

Remote control battery is low Replace CR2025 battery

Bluetooth call is poor

Microphone is too far away Speak into the microphone

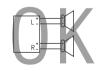
SPEAKER CONNECTION

Do not connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.

Before oconnecting the speak leads of the power cord to the speakers, check the speaker wiring in your car.







SPECIFICATION

GENERAL	Power supply Requirement	DC 12V
	Maximum power output	50W X 4CH
	Speaker impedance	4 - 8 Ohm
	Unit Dimensions(WxHxD)	178 x 111 x 50 mm
	Weight	0.45 kg
	Fuse	10 A

RADIO	FM Frequency Range	87.5MHz-108.0MHz
	AM Frequency Range	522 KHz~1620 KHz
	Preset	18FM,12AM

USB INDEX	Usable Audio Formats:	MP3, WMA, AAC, FLAC
	USB Port Type:	2.0
	USB Maximum Capacity:	64GB
	USB Charging:	5V/1A
	Frequency Response:	20 Hz - 20 KHz
	S/N Ratio:	60 dB

ВLUETOOTH	Version	Bluetooth 5.1
	BT Profile supports:	A2DP, AVRCP, HFP
	Range of frequency:	2.4 GHz spectrum



CONNECT WITH US ONLINE TO EXPLORE NAKAMICHI'S COMPLETE RANGE, INSTRUCTIONS & SOFTWARE DOWNLOADS AND WARRANTY REGISTRATION.

WWW.NAKAMICHICARAUDIO.COM



Nakamichi Corp, Japan Made in China | 中國製造